STUDENT ID NO					

MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 3, 2016/2017

DCS5018 - COMPUTER SYSTEMS & APPLICATIONS

(For Diploma students only)

31 MAY 2017 9:00 a.m. – 11:00 a.m. (2 Hours)

INSTRUCTIONS TO STUDENT

- 1. This question paper consists of 8 pages.
- 2. Answer ALL questions in Section A on the OMR sheet.
- 3. Answer ALL questions in Section B in the Answer Booklet.

Section A: 40 Multiple Choice Questions (40 marks)

Instruction: Shade your answers on the OMR sheet.

1.	These are the example of input devices EXCEPT
	A. scanner B. speaker
	C. microphone
	D. digital camera
	D. digital valled a
2.	is a condition when you power on a computer from a completely
	turned-off state.
	A. Restart
	B. Hibernate
	C. Cold boot D. Warm boot
	D. Warm boot
3.	The size of file in Terabyte is greater than
	A. Exabyte
	B. Petabyte
	C. Gigabyte
	D. Zettabyte
4.	is the set of programs to help users to do routine tasks such as writing
	a research paper.
	A. Software
	B. System software
	C. Operating system
	D. Application software
5.	A is a small, lightweight computer that is generally 7 – 10 inches wide
	and it has a longer battery life.
	A. tablet
	B. netbook
	C. ultrabook
	D. notebook
6.	A set of four numbers separated by period that is unique and its commonly referred
	as a dotted quad also known as
	A. HTTP protocol
	B. browser address
	C. TCP standard protocol
	D. Internet Protocol (IP) address
7	The followings are the revolutionary ways of learning and teaching with using web
	2 A EVCEPT
	A. creating items online
	B. updating items offline
	C. collaborating items online
	D. downloadable documents
	Continued

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8.	The is an online collaboration application that allows users to add,
	remove, or edit its content.
	A. wikis
	B. video log (vlog)
	C. Instant Messaging (IM) D. electronic mail (email)
	D. electronic man (eman)
9.	A is a form of digital media comprised of a series of audio or video
	files that are distributed over the Internet.
	A. podcasts
	B. webcasts
	C. interactive gaming
	D. streaming audio and video
10	. Label X in the following URL address is referred as
	Label X
	*
	http://www.nytimes.com/pages/crosswords
	Tittp://www.nytimes.com/pages/ciosswoids
	A. path
	B. protocol
	C. domain name
	D. top-level domain
11	is a software that you can access and use it over the Internet without
	having to install it on your computer.
	A. Productivity software
	B. Open source software
	C. Software as a Service (SaaS)
	D. Desktop publishing (DTP) software
12.	Which of the following software is NOT designed for the large and specialized
	businesses?
	A. Project management
	B. Computer-Added Design (CAD)
	C. Desktop publishing (DTP) software
	D. Customer Relationship Management (CRM)
12	is a program that used for creating automated designs, technical
	drawings, and 3-D model visualizations.

Continued...

A. Vertical market software
B. Computer-aided design (CAD)
C. Web page-authoring software
D. Enterprise resource planning (ERP)

14. Anti-virus software can be categorized as a (n)
A. utility software
B. vertical market software
C. operating system software
D. personal productivity software
15. What type of application software that is used specifically for a divergent business?
A. Vertical market software
B. Horizontal market software
C. Personal productivity software
D. Desktop publishing (DTP) software
D. Desktop publishing (D11) software
16. The enables user to run both MAC OS X and Windows OS at the same
time.
A. partition
B. V-fusion
C. boot camp
D. virtual drive
17. The followings are the Windows 8 apps features EXCEPT
A. preinstalled
B. displayed full-screen
C. downloadable from Windows store
D. all the Windows 8 apps are visible on the Start screen
18. The is a reminder of what the CPU was doing before it started to work
on the new task after received the interrupt.
A. stack
B. memo
C. queue
D. spooler
D. Spoolei
19. These are the characteristics of basic input/output system (BIOS) EXCEPT
A. stored on ROM
B. loads OS into RAM
C. performing general housekeeping tasks
D. exchange data between the OS and all attached devices
20. The Windows 8 has created special shortcuts called as
A. bars
B. charms
C. pinning
D. task bars
w. work Value

- 21. James needs a lightweight device and willing to sacrifice some capabilities for less weight. What kind of technology user is he?
 - A. Power user
 - B. High technology user
 - C. Mobile user
 - D. Casual user
- 22. What makes one CPU different from another?
 - A. Clock speed
 - B. Single or multiple cores
 - C. Amount of cache memory
 - D. All of the above.
- 23. Which of the following is TRUE about the levels of cache memory?
 - A. Level 1 cache gets the data to the CPU blindingly fast.
 - B. Level 2 cache is slower for the CPU to reach but is larger in size than Level 3 cache.
 - C. Level 3 cache contains less storage area than Level 2 cache.
 - D. None of the above.
- 24. When would you want to consider RAID 0 technology?
 - A. When you only want to have one hard disk drive.
 - B. When you need the fastest solution for writing data.
 - C. If you think that SSDs are too expensive.
 - D. When you need an instant backup of your work.
- 25. Disk defragmenter utility is used when
 - A. hard drive is running low on space, which making system runs slowly
 - B. system is slowing down and browser or other programs are behaving strangely
 - C. files are spread across many spots on the hard drive and making the hard drive run slowly
 - D. system not responding
- 26. A _____ is a large network designed to provide access to a specific geographic area such as an entire city.
 - A. metropolitan area network (MAN)
 - B. personal area network (PAN)
 - C. local area network (LAN)
 - D. wide area network (WAN)
- 27. The software handles requests for information, Internet access and the use of peripherals for the rest of the network nodes, such as Windows Server, is known as
 - A. personal computer operating software
 - B. real time operating software
 - C. mobile operating software
 - D. network operating software

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28.	Below are the reasons that wireless networks are slower than wired networks EXCEPT
	 A. certain building materials such as metal can decrease network throughput B. wireless networks can interfere with the signals on the wired network C. wireless networks use specially coded signals to protect their data D. signal for wired connection is protected
29.	 What is the function of a router? A. Receives data packets and sends them to their intended nodes on the same network. B. During the transmission process, data packets can suffer collisions.
	C. Acts like a traffic signal on a network.D. Transfers packets of data between two or more networks (separate network).
	How to check list of wireless devices that are connected to your router? A. Look at the physical router itself.
	B. Log in to the router's IP address and check the configuration page.C. Look at the device wireless settings.D. All of the above.
	Which of the following malware that installs itself on the beginning tracks of a hard drive, spreads the infection by simply rebooting the system? A. Boot sector virus B. Rootkit C. Botnet D. Macro virus
32.	An individual that deliberately attempts to obtain unauthorized access to a computer or network system with the intent to do harm is referred as A. zombie B. bot C. grey hacker D. black hacker
	Firewalls work by closing in your computer. A. logical ports
1	B. software gaps C. backdoors D. logical doors
	What is a type of software program that records all the keystrokes a user enters – such as passwords, account number or conversations?
	A. Keylogger B. Data diddler C. Macro D. Time bomb
	Continued

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35. What is the name at to distribute spam A. Rootkits B. Zombies C. Backdoor D. Time bombs	given to commandeered co and malware?	omputers that are of	ten used by botnets
A. Database is a c queried.B. Security of datC. There are no fi	wing is NOT TRUE about the collection of related data the axis disminished. Hes to reconcile with each de data centralization who	nat can be stored, sor	entralized database.
	database relationship for		
A. One-to-none re B. Many-to-many C. One-to-many D. One-to-one rela	relationship elationship		
	al database		nd organizes in one
A. batch processin B. summary repor C. Office Support	t	keeping track of bu	usiness activities is

- B. expert
- C. model management
- D. natural language processing

Con	timo	ed
Con	unu	eu

Section B: 4 Structured Questions (60 marks)

Instruction: Write your answers in the Answer Booklet.

Question 1

a) Define the term "Computer" and describe its FOUR major functions.

(5 marks)

b) Differentiate between data and information. Give an example to support your answer.

(3 marks)

c) Briefly describe the process of data transmission on a client/server network.

(4 marks

d) State THREE privacy precautions needed while communicating and collaborating on the Web.

(3 marks)

[TOTAL 15 MARKS]

Question 2

a) Proprietary software and Open source software are the two types of software you can install on your computer. Briefly describe TWO characteristics for each type of these software.

(4 marks)

 State FIVE types of productivity software and provide an example for each type.

(5 marks)

c) What is Operating System (OS)? List TWO basic functions of OS.

(3 marks)

d) List **THREE** examples of devices that use a real-time operating system (RTOS). (3 marks)

[TOTAL 15 MARKS]

Question 3

a) Briefly explain THREE procedures to ensure system reliability.

(6 marks)

b) Provide THREE ways to troubleshoot if the system crashes and rebooting the computer does not help.

(3 marks)

Continued...

c) Discuss FOUR benefits and TWO disadvantages of setting up networks.

(6 marks)

[TOTAL 15 MARKS]

Question 4

- a) Joe found that some of his data files are corrupted and some have disappeared. He suspected his computer was infected with virus. Thus, he ran antivirus software to check.
 - i. What antivirus software would you recommend to him?

(1 mark)

ii. Explain how the antivirus software works.

(6 marks)

 Based on Figure 1.0, discuss the related validation rules that need to be defined to the related field accordingly.

(8 marks)

Personal Information		
* You are compulsory to fill up the fi	elds.	
Student name	: Hello123	* Please use alphabet only
Student ID	: 1161201234	
Emeli	: hello@gmail.com	✓
Phone		X. Phone monber is required
Password (between 8 – 10 characters)	* *****	■ Password length should be 8 – 10 characters
Confirm Password	*******	X Please enter the exact same password

Figure 1.0 Printscreen of Personal Information Validation Form

[TOTAL 15 MARKS]